

Title (en)  
SYSTEM AND METHOD FOR REMOVAL OF MATERIALS FROM AN ARTICLE

Title (de)  
SYSTEM UND VERFAHREN ZUM ENTFERNEN VON MATERIALIEN VON EINEM ARTIKEL

Title (fr)  
SYSTEME ET PROCEDE DE RETRAIT DE MATIERES D'UN ARTICLE

Publication  
**EP 1573771 A2 20050914 (EN)**

Application  
**EP 03754805 A 20030922**

Priority  
• US 0329733 W 20030922  
• US 41260402 P 20020920

Abstract (en)  
[origin: WO2004027810A2] The system and method of the present invention removes organic and organometallic materials from an article in reduced pressure atmosphere containing ozone and activated oxygen. A dielectric barrier discharge lamp induces an intermolecular molecule energy transfert to the organic and organometallic material. The dielectric barrier discharge lamp emits vacuum ultraviolet rays having a wavelength of about 172 nm that produce a photochemical reaction with the oxygen-containing gas to generate ozone and the activated oxygen. The organic and organometallic material is then attached by the ozone and activated oxygen.

IPC 1-7  
**B08B 7/04**

IPC 8 full level  
**B08B 7/00** (2006.01); **B08B 7/04** (2006.01); **C23F 1/00** (2006.01); **G01N 23/02** (2006.01); **G03F 7/42** (2006.01); **H01J 1/00** (2006.01); **H01L 21/00** (2006.01); **H01L 21/02** (2006.01); **H01L 21/306** (2006.01); **H01L 21/311** (2006.01)

IPC 8 main group level  
**H01J** (2006.01)

CPC (source: EP US)  
**B08B 7/0057** (2013.01 - EP US); **B09B 5/00** (2013.01 - EP US); **G03F 7/42** (2013.01 - EP US); **G03F 7/427** (2013.01 - EP US); **H01L 21/02071** (2013.01 - EP US); **H01L 21/31138** (2013.01 - EP US); **H01L 21/67069** (2013.01 - EP US); **H01L 21/67115** (2013.01 - EP US); **C22B 7/001** (2013.01 - EP US); **Y02P 10/20** (2015.11 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004027810 A2 20040401**; **WO 2004027810 A3 20050929**; AU 2003272613 A1 20040408; AU 2003272613 A8 20040408; EP 1573771 A2 20050914; EP 1573771 A4 20071031; US 2004108059 A1 20040610; US 2006180173 A1 20060817

DOCDB simple family (application)  
**US 0329733 W 20030922**; AU 2003272613 A 20030922; EP 03754805 A 20030922; US 39550006 A 20060331; US 66757403 A 20030922